

Interactive comment on “Impact of vertical and horizontal advection on nutrient distribution in the South East Pacific” by B. Barceló-Llull et al.

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Dear Dr. Hecht,

Thank you for your comments regarding the reviewers' replies to our manuscript. We accept the need to improve our experimental protocol, and have been considering how best to respond to the issues that have been raised. The main objections are the choice of initial particle positions, and the lack of a nitrate sink in the euphotic layer which leads to erroneous symmetry in vertical nitrate fluxes. As a first step, we are preparing a series of new Lagrangian simulations with different particle release distributions. For the second point we are still considering if and how to approach this. Given the upcoming holidays, we would like to request an extension to complete this

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work; we think the end of February should be sufficient.

Best regards, Bàrbara Barceló-Llull

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